Tableau Live Examples:

# Loading Data

* Talk about how a csv file is considered a text file
* Show how you could change a data type
  + Change ‘Overall Rank’ from number to string

# Footer

* Show what happens when you change sheet views
  + The three options on the far right of the footer

# Menus and Toolbar

* Show ‘Undo’
  + Put ‘Freedom to make life choices’ in columns
  + Put ‘Overall Rank’ in Rows

# Creating a New Sheet

* Show the different types of sheets you can create
* Rename a sheet
  + Right click -> choose ‘Rename’

# Data

* Show data pane organization
  + The different pieces of data are organized by dimension/measure
    - Can drag attributes from one section to another to change them from dimension to measure or vice versa
    - Drag ‘Generosity’ to be a dimension
  + They are then further organized by green (continuous) and blue (discrete)
    - Can right click or choose drop down to change from one to the other for certain data types (e.g. numbers)
    - Convert ‘Score’ to discrete
* Explore the drop-down menu:
  + Change the name of the field (Freedom to make life choices 🡪 Freedom)
  + Hide/Unhide
    - Go up to data pane drop down to use ‘Show Hidden Fields’
  + Convert from continuous to discrete (Overall rank)
  + Convert from measure to dimension (overall rank)

# Rows and Column Shelves

* Use country dimension and score measure
* Switch their order of row/column
* Show how Tableau is smart enough to make a map if we use long/lat
  + Put Longitude in columns and Latitude in Rows
  + Put Country or region in Marks card Label
  + These values weren’t even in the original dataset!

# Aggregation

* Add Score to column --> Default is SUM
* Change GDP default aggregation and add it to row
* Change GDP aggregation type from shelf
* But what if I want to see the correlation between these two numeric values?
  + Turn off aggregation under Analysis tab
  + Note the correlation
  + Add a trend line (Also under the Analysis tab)
* What if I want to see the correlation between score and multiple values?
  + Add Generosity to Row 🡪 Not as correlated
  + Add several more
* You can also see how things are correlated to multiple other things
  + Add fields to the column shelf as well
  + This is how you can do some exploratory data analysis to see what kinds of trends are in your data
* Empty Columns and Rows shelves

# Granularity

* Show how SUM only applies to a single value when a plot is grouped by Country
  + Put Score in Columns and Country in Rows

# Marks

* Create a scatter plot with GDP vs. life expectancy
* Add Score as a color mark
* Change legend scheme to red/green
* Move score around to other types of marks

# Show Me

* Make an empty sheet
* Open Show Me card
* Hold down CTRL and select some data to see the chart options
  + Use GDP per capita and Country
* Play around with different options

# Dashboard

* Create a couple of visualizations
  + One scatter plot and one map
* Create a new dashboard
  + Change size to automatic
* Arrange as desired
* Show setting one as a filter for the other
  + Click and highlight